The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original): An ionic liquid of the formula

 K^+A^- (I)

wherein:

K⁺ is a cation selected from

where

 R^1 to R^6 are identical or different and are each individually - H,

2

- halogen,

- an alkyl radical (C₁ to C₈), which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)},H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)},H_x)$, where 1 < n < 6 and $0 < x \le 13$,

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- a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1+x)}H_x)_2$, $O(C_nF_{(2n+1-1)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where 1 < n < 6 and $0 < x \le 13$, or

- one or more pairs of adjacent R^1 to R^6 can also be an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen, $N(C_nF_{(2n+1x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where 1 < n < 6 and $0 \le x \le 13$; and

A is an anion of the following formula

$$[PF_x(C_yF_{2y+1-z}H_z)_{6-x}]^-$$

where $1 \le x < 6$

 $1 \le y \le 8$ and

 $0 \le z \le 2y+1.$

- 2. (Original): A compound according to claim 1, wherein at least one R¹ to R⁶ group is a halogen.
- 3. (Original): A compound according to claim 1, wherein at least one R^1 to R^6 group is an alkyl radical (C_1 to C_8), which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}, H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)}, H_x)$, where 1 < n < 6 and $0 < x \le 13$.
- 4. (Original): A compound according to claim 1, wherein at least one R^1 to R^6 group is a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1+x)}H_x)_2$, $O(C_nF_{(2n+1-1)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where 1 < n < 6 and

 $0 < x \le 13$.

5. (Original): A compound according to claim 1, wherein at least one adjacent pair of R^1 to R^6 is an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen, $N(C_nF_{(2n+1x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ where 1 < n < 6 and $0 \le x \le 13$.

6. (Original): A compound according to claim 1, wherein said compound has at least one perfluorinated alkyl group.

- 7. (Original): A compound according to claim 1, wherein said compound contains at least one C_yF_{2y+1-z}H_z group selected from C₂F₅ and C₄F₉.
- 8. (Original): An electrochemical cell comprising a cathode, an anode, a separator, and an ionic liquid of claim 1.
- 9. (Original): A capacitor comprising of at least a pair of electrodes, a separator, and an ionic liquid of claim 1.
- 10. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and an aprotic solvent.
- 11. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and a conductive salt.
- 12. (Previously Added): A compound according to claim 1, wherein said compound is:

4

1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate;

1,2-dimethyl-3-propylimidazolium tris(pentafluoroethyl)trifluorophosphate; or

 $1-ethyl-3-methyl imidazoli um\ tris (nonafluorobutyl) trifluorophosphate.$

- 13. (Previously Added): A compound according to claim 12, wherein said compound is 1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate.
- 14. (New): A compound according to claim 1, wherein R^1 to R^6 are each H or a C_1 to C_8 alkyl, which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)},H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, or $(C_nF_{(2n+1-x)},H_x)_1$, where 1 < n < 6 and $0 < x \le 13$.
- 15. (New): A compound according to claim 1, wherein R^1 to R^6 are each H or a C_1 to C_8 alkyl.
- 16. (New): An electrolyte composition according to claim 11, wherein said conductive salt is LiPF₆, LiBF₄, LiClO₄, LiAsF₆, LiCF₃SO₃, LiN(CF₃SO₂)₂, LiC(CF₃SO₂)₃ or a mixture thereof.
- 17. (New): An electrolyte composition according to claim 11, wherein said composition contains 1-99 wt% of said ionic liquid.
- 18. (New): An electrolyte composition according to claim 11, wherein said composition further contains an organic isocyanate.
 - 19. (New): A compound according to claim 1, wherein $2 \le y \le 8$.
 - 20. (New): A compound according to claim 1, wherein $1 \le z \le 2y + 1$.